

**Notice of Allowability**

Application No.

10/716,366

Examiner

Stephen W. Smoot

Applicant(s)

QUICK, NATHANIEL R.

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's amendment received on 07 January 2005.
2. ☒ The allowed claim(s) is/are 1-12.
3. ☒ The drawings filed on 18 November 2003 and 07 January 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

*Stephen W. Smoot*  
Patent Examiner /AU 2813

This Office action is in response to applicant's amendment received on 07 January 2005.

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert F. Frijouf on 10 February 2005.

2. The application has been amended as follows:

#### **In the Specification:**

In the Cross-Reference paragraph (page 6 of the amendment received on 07 January 2005), first sentence, change "6,271,576" to --6,670,693--; and

In the Cross-Reference paragraph (page 6 of the amendment received on 07 January 2005), second sentence, insert --now U.S. 6,271,576-- after "06/01/1998".

#### **In the Claims:**

In claim 12, line 1, change the claim dependency from "claim 7" to --claim 10--.

3. The terminal disclaimer received on 13 January 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent Number 5,837,607 or US Patent Number 6,054,375 has been reviewed and is accepted. The terminal disclaimer has been recorded.
4. A replacement drawing sheet corresponding to Figs. 1-3 was received on 07 January 2005. These drawings are acceptable.
5. Claims 1-12 are allowed.
6. The following is an examiner's statement of reasons for allowance:
  - Claims 1-3 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method for making a plurality of electrical components, elements, and electro-conductive traces on a wide-bandgap semiconductor compound substrate that includes the step of directing a focused laser beam onto a surface portion of the substrate to form the electrical components, elements, and electro-conductive traces by laser synthesis;
  - Claims 4-6 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method for making a plurality of electrical components and elements on a wide-bandgap semiconductor compound film that includes the step of directing a focused laser beam onto a

surface portion of the film to form the electrical components and elements by laser synthesis;

- Claims 7-9 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method for making a diode device that includes the steps of forming a p-n junction by using laser synthesis to convert a first section of a wide-bandgap semiconductor compound substrate to p-type and an adjacent second section of the substrate to n-type; and
- Claims 10-12 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method for making a transistor device that includes the steps of using laser synthesis to convert first and second spaced apart sections of an n-type wide-bandgap semiconductor compound substrate to p-type in order to form a p-n-p transistor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen W. Smoot whose telephone number is 571-272-1698. The examiner can normally be reached on M-F (8:00 am to 4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SWS